

Remarks

Claims 1-32 and 72-103 are pending in the application. Claim 1 has been amended. New claims 102 and 103 have been added that include all the limits of claims 11 and 75 that the Examiner said would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. No new matter has been added by virtue of this amendment. Reconsideration of the application as amended is requested.

Entry of the present amendment

The amendment to claim 1, adding "wherein said dicing step disconnects mechanical connection between adjacent short coils," is similar to the idea in original claim 32 of "dicing through the tube." Applicant respectfully asks the Examiner to consider that the amendment of claim 1 places claim 1, and all claims dependent on claim 1, in position for allowance. New claims 102 and 103 include all the limits of claims 11 and 75 that the Examiner said would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Applicant therefore requests that the present amendment be entered in the case.

Allowable Subject Matter

Applicant thanks the Examiner for the allowance of claims 11-21, 28-32, and 75-99 if rewritten in independent form including all of the limitations of the base claim and any intervening claims. New claims 102 and 103 are claims 11 and 75 so rewritten. Applicant believes the amendment to claim 1 will put all claims in the case in position for allowance.

Claim Rejections--35 U.S.C. § 103

The Examiner rejects claims 1, 4-10, 23-27, 72-73, and 101 under 35 U.S.C. § 103 as being unpatentable over Bernstein in view of Bell. As the Examiner points out, "Bernstein does not teach the step of: "dicing through said coil to provide a plurality of short coils. J.F. Bell teaches the above."

However, as amended claim 1(c) provides:

dicing through said coil to provide a plurality of short coils, wherein said dicing

step disconnects mechanical connection between adjacent short coils, and wherein each said short coil has at least one said opening in said insulation.

In Bell the short coils are left mechanically connected. There is no teaching or suggestion of "wherein said dicing step disconnects mechanical connection between adjacent short coils," as provided in claim 1, as amended. Bell specifically requires "severing said conductor without severing said core member between selected ones of said terminals to arrange said remaining conductor turns in a plurality of multi-turn inductance coils" (column 4, lines 35-38). Thus, Bell teaches against disconnecting mechanical connection between adjacent short coils.

Thus, the rejection of claim 1, and claims dependent thereon, under 35 U.S.C. § 103 as being unpatentable over Bernstein in view of Bell has been traversed.

The Examiner further states, "applicants are also referred to a cited reference to Shikama, that Figs. 2,7 shows cutting lines A-A, B-B. Applicant believes this reference is no more relevant since Shikama does not teach or suggest "dicing through said coil to provide a plurality of short coils," as provided in claim 1. Shikama's process provides an individual coil that merely has its ends diced off.

The Examiner rejects claims 74, 2, 3, and 100 under 35 U.S.C. § 103 as being unpatentable over Bernstein in view of Bell. As the Examiner points out, "Bernstein does not teach . . . 'providing a coil of conductor and insulation on a tube.'" J.F. Bell teaches the above."

However, as described herein above, claim 1 has been amended to include the limit, "wherein said dicing step disconnects mechanical connection between adjacent short coils." In Bell the short coils are left mechanically connected. There is no teaching or suggestion of disconnecting mechanical connection in either reference. Bell specifically requires "severing said conductor without severing said core member between selected ones of said terminals to arrange said remaining conductor turns in a plurality of multi-turn inductance coils" (column 4, lines 35-38). Thus, Bell teaches against disconnecting mechanical connection between adjacent short coils.

Thus, the rejection of claims 74, 2, 3, and 100 which are dependent on claim 1, under 35 U.S.C. § 103 as being unpatentable over Bernstein in view of Bell has been traversed.

The Examiner rejects claim 22 under 35 U.S.C. § 103 as being unpatentable over Bernstein in view of Bell as applied above and further in view of Shikama. Applicant would respectfully ask the Examiner to consider that FIG. 6 of Shikama describes a "metallic mold for injection molding to manufacture the bead inductor" There is no

teaching or suggestion of "the step of enclosing said coil in a housing and hermetically sealing said housing," as described in claim 22. There is no teaching or suggestion to provide a **hermetic seal** in this molding manufacturing step of FIG. 6. Furthermore, claim 22 is dependent on claim 1, and there is no teaching or suggestion of the limits of claim 1, as amended, described herein above.

Thus, the rejection of claim 22 which are dependent on claim 1, under 35 U.S.C. § 103 as being unpatentable over Bernstein in view of Bell as applied above and further in view of Shikama, has been traversed.

Prior Art References

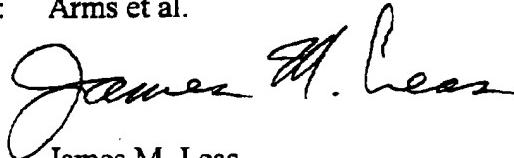
Applicant's attorney has reviewed the prior art references made of record but not relied upon. Reference US2002/0088110 is the present application as published by the PTO, which of course cannot be a prior art reference. Applicant's attorney finds that the others are no more relevant than those relied upon.

Conclusion

It is believed that all the claims are in condition for allowance. Therefore, applicant respectfully requests favorable reconsideration. If there are any questions please call applicant's attorney at 802 864-1575.

Respectfully submitted,

For: Arms et al.



By: James M. Leas

Registration Number 34,372

Tel: (802) 864-1575

James M. Leas
37 Butler Drive
S. Burlington, Vermont 05403

Version with markings to show changes made**IN THE CLAIMS:**

Please cancel claims 33-71.

Please amend the following claim:

- 1 1. (Twice Amended) A method of fabricating an electronic device, comprising the steps
- 2 of:
 - 3 a) providing a coil of conductor and an insulation, said coil of conductor
4 having a coil outer surface, said insulation on said coil outer surface;
 - 5 b) forming openings in portions of said insulation on said coil outer
6 surface and exposing conductor of said coil for contacts; and
 - 7 c) dicing through said coil to provide a plurality of short coils, wherein
8 said dicing step disconnects mechanical connection between adjacent
9 short coils, and wherein each said short coil has at least one said
10 opening in said insulation[.].